

WHAT IS CLAIMED IS:

1. A manual electric generating device, comprising:

an upper casing, being hemispherical in shape and having a hollow cavity at its top;

5 a lower casing, being hemispherical in shape and engaged with said upper casing to define an accommodating space, and having a hollow cavity at the bottom of said lower casing;

a rotor, being disposed in said accommodating space and capable of rotating reciprocally in said accommodating space and having at least one
10 permanent magnet thereon;

a fixed stand, for supporting and mounting said rotor;

a coil, being disposed in said hollow cylinder and having a core and a plurality of coiled conductive wires; wherein said conductive wires surround said core, such that when said rotor rotates reciprocally, said permanent magnets divide
15 said coil to generate a power supply;

a hollow cylinder, being inserted into said hollow cavity and having at least one opening at its external periphery; and

a printed circuit board, being coupled to said coil and disposed in said hollow cylinder, for processing and outputting said power supply for selectively
20 charging a portable electronic device and lighting up an indicating lamp.

2. The manual electric generating device of claim 1, wherein said lower casing further comprises an inner circular groove, a central protruded ring, and an external circular groove at its top.

3. The manual electric generating device of claim 1, wherein said rotor further
25 comprises a weight, a central axle and at least one permanent magnet, and said central axle passes through the center of said weight and said permanent magnets are disposed equidistantly from each other around the outer periphery of said weight, and said weight, said central axle, and said permanent magnets are wrapped with a non-metal material, and a starting groove is disposed at the outer

periphery of said rotor, and at least one starting axle hole is disposed in said starting groove.

4. The manual electric generating device of claim 1 wherein said fixed stand comprises a through hole on each end, such that both ends of said central axle
5 pass through said through holes respectively and then are placed inside said circular groove for supporting and mounting said rotor.

5. The manual electric generating device of claim 1, wherein said permanent magnets are preferably even number in quantity and disposed with an alternate order of anodes and cathodes, and its surface is in a circular arc shape.

10 6. The manual electric generating device of claim 1, wherein said power supply is preferably an alternate current power supply, outputting a direct current power supply with a voltage of 5~8V and a current of several hundreds mA after being stepped down and rectified by said printed circuit board for selectively supplying electric power to said portable electronic device and said indicating lamp.

15 7. The manual electric generating device of claim 1, wherein said portable electronic device is one selected from the collection of a mobile phone, a personal digital assistant, and a MP3 player.

8. The manual electric generating device of claim 1, wherein said indicating lamp is a high-brightness LED.

20 9. The manual electric generating device of claim 1, wherein said weight is preferably made of a zinc alloy, said central axle is preferably made of a metal, and said non-metal wrap is preferably a plastic injection part.

10. The manual electric generating device of claim 1, wherein said hollow cylinder further comprises a wire clamping groove at its outer side.

25 11. The manual electric generating device of claim 1, wherein said hollow cylinder at its outer side further comprises a switch, a DC socket, and a cover, and

said switch and said DC socket are disposed in said openings and electrically coupled to said printed circuit board for obtaining electric power supply to charge said portable electronic device.

5 12. The manual electric generating device of claim 1, wherein said upper casing on both ends further comprises a screw hole, and both ends of said central protruded ring comprise an ear section disposed at a position corresponding to said screw hole, and a screw hole is disposed in said ear section, such that when said upper and lower casings are engaged, at least one screw passes through said screw holes to secure said upper and lower casings.

10 13. The manual electric generating device of claim 2 further comprising a protective cover, being made of a rubber material and inserted into said hollow cavity of said upper casing for preventing a user's hand from touching said rotor to slow down and stop the rotation of said rotor, wherein said protective cover further comprising:

15 a holding section, being circular in shape, and having a size precisely fitting said external circular groove of said lower casing to attain the holding effect for engaging said upper and lower casings;

a wire containing groove, being circular in shape and coupled to said holding section and having a size precisely fitting into said hollow cavity of said upper casing, and a circular groove disposed thereon being used to accommodate said pulling string; and

20 a wire groove cover, being circular in shape and coupled to said wire containing groove and having a size precisely inserting and covering said wire containing groove to prevent said pulling string from missing.

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